

44. The fuel processor of claim 43, wherein said stream of water is passed over the shell side of said tubes in said preferential oxidation reactors.

45. The preferential oxidation reactor of claim 40, wherein said water stream exchanges heat initially with the first stage off said preferential oxidation reactor and later with the last stage of said preferential oxidation reactor.

46. The preferential oxidation reactor of claim 40 wherein said water stream exchanges heat initially with the last stage of said preferential oxidation reactor and later with the first stage of said preferential oxidation reactor.

End A2

REMARKS

Please enter this amendment, which adds claims to which Marten Ternan is sole inventor.

Respectfully submitted,

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Enclosures

CLEAN COPY OF PAGE 1 OF SPECIFICATION WITH NEW ADDITIONS



BACKGROUND TO THE TECHNOLOGY:

This application claims priority from U.S. provisional application Serial No. 60/224,673 filed August 11, 2000.

The present invention relates to new apparatuses useful for the conversion by steam reforming of hydrocarbons and fossil fuels into hydrogen that is the feedstock for fuel cell stacks that generate electricity. Still more particularly, the present invention is concerned with particular equipment, a hydrocarbon generating apparatus, a single vessel heat integrated multi-stage water-gas shift reactor, a multiple heat source boiler, a multi-functional heat exchanger, and a multi-staged preferential oxidation reactor, and the combination thereof into a fuel processor. The present invention is further related to the integration of said fuel processor with a fuel cell stack.